lono	lulu Hi	gh-Capacity Transit Corridor Project	t	East Kapolei to A	Ala Moana Center
ixed Sumn	Guide nary C	eway Alternatives ost Comparison of Alternative Analy		Preliminary - Not Final (2006\$ with Contingency)	Preliminary - Not Final (2006\$ with Contingency
ew Start	Project (Ea	st Kapolei to Ala Moana Center)	05/04/07	Sections & Alignments Section 1	Sections & Alignments Section 2
		Description		Saratoga Ave/North-South Rd from UHWO- Makai Station	Fort Weaver Rd to Aloha Stadium
				Alt 5 5	1
				At-grade/elevated	At-grade/elevated
10.00	GUIDEW	AY & TRACK ELEMENTS			<u> </u>
		Guideway: At-grade Exclusive Right-of-way		\$2,068,368	
		Guideway: Aerial structure		\$98,768,007	\$265,825,986
		Guideway: Underground cut & cover		\$0	\$19,347,000
		Guideway: Retained cut or fill		\$7,420,200	\$9,893,600
		Track: Direct fixation		\$8,750,025	\$22,999,950
		Track: Ballasted		\$3,165,612	\$753,000
	10.12	Track: Special (switches, turnouts)		\$2,969,460	\$4,633,684
		SUBTOTAL	GUIDEWAY & TRACK	\$123,141,672	\$323,453,220
20.00	STATION	IS, STOPS, TERMINALS, INTERMODAL			
		At-grade station, stop, shelter, mall, terminal, platform		\$3,195,536	\$3,195,536
		Aerial station, stop, shelter, mall, terminal, platform		\$11,881,180	\$23,762,360
		Elevators, escalators		\$6,504,240	\$13,008,480
	20.01	SUBTOTAL COST STATIONS, STOPS, TERM	INALS INTERMODAL	\$21,580,956	\$39,966,376
		SUBTOTAL COST STATIONS, STOPS, TERM	IINALS, INTERMODAL	\$21,580,956	\$39,966,376
30.00	YARDS.	SHOPS, ADMIN/SUPPORT FACILITIES			
		Administration Building: Office, sales, storage, revenue counting		\$0	\$0
		Heavy Maintenance Facility		\$0	\$0 \$0
		Storage Building & Yard		"IN 30.03"	"IN 30.03"
	30.04	SUBTOTAL COST YARDS, SHOPS, ADMIN/	SUPPORT FACILITIES		\$0
				•	*-
40.00	SITEWOI	RK & SPECIAL CONDITIONS			
	40.01	Demolition, Clearing, Earthwork ¹		\$2,474,018	\$7,463,018
		Site Utilities, Utility Relocation		\$12,515,940	\$17,431,423
		Haz. mat'l, contam'd soil removal/mitigation, ground water treatments		\$237,355	\$3,250,635
		Environmental mitigation, e.g. wetlands, historic/archeologic, parks		\$750,000	\$2,500,000
		Site Development: Roads, walks, plazas, parking lots, landscape work		\$33,172,332	\$97,827,729
	40.00	SUBTOTAL COST SITEWORK & S	PECIAL CONDITIONS		\$128,472,805
50.00	SYSTEM	S			
	50.01	Train control and signals		\$6,468,246	\$8,466,612
	50.02	Traffic signals and crossing protection		\$0	\$8,073,364
	50.03	Traction power supply: substations		\$6,561,844	\$11,483,227
	50.04	Traction power distribution: catenary and third rail		\$4,957,065	\$8,535,150
		Communications		\$5,761,431	\$10,636,626
		Fare collection system and equipment		\$899,136	\$1,498,560
		Central Control		\$0	\$0
			OTAL COST SYSTEMS	·	\$48,693,539
		SUBTOTAL CONSTRUCTION COSTS		\$218,519,995	\$540,585,940
				\$56,227,730	\$140,145,693
		CONTINGENCY (WEIGHTED AVERAGE)		\$30,221,130	φ 140, 140,033 ——————————————————————————————————
		SUBTOTAL CONSTRUCTION COSTS	WITH CONTINGENCY	\$274,747,725	\$680,731,633
				1	,,,
		FEE/RISK		in items above	in items
				\$1,803,032	\$4,467,301
		ADJUSTMENT FOR CASUAL OVERTIME	(2.5% OF DIRECT LABOR)		
				\$276,550,757	\$685,198,934
		SUBTOTAL CONSTRUCTION COSTS			
				\$13,031,072	\$32,286,574
		HAWAII STATE EXCISE	4.712%		<u> </u>
		TOTAL CONSTRUCTION COSTS (2006\$)		\$289,581,829	\$717,485,508

ixed umm	Guide ary C	gh-Capacity Transit Corridor Project way Alternatives ost Comparison of Alternative Analy ast Kapolel to Ala Moana Center)		Preliminary - Not Final (2006\$ with Contingency)	Preliminary - Not Final (2006\$ with Contingency
ew Guit i	Tojest (Eu	date:	05/04/07	Sections & Alignments Section 1	Sections & Alignments Section 2
		Description		Saratoga Ave/North-South Rd from UHWO- Makai Station	Fort Weaver Rd to Aloha Stadium
80.00	ROW, LA	AND, EXISTING IMPROVEMENTS			
	60.01	Purchase or lease of real property		\$ 0	\$3,320,000
	60.02	Relocation of existing households and businesses		\$0	\$400,000
		SUBTOTAL COST ROW, LAND, EXIST	ING IMPROVEMENTS	\$0	\$3,720,000
		CONTINGENCY & ENGINEERING (40%+10%)	50%	\$0	\$1,860,000
			TOTAL ROW COSTS	\$0	\$5,580,000
70.00	VEHICLE	ES .			
	70.01	Light Rail		IN SECTION 6	IN SECTION 6
	70.06	Non-revenue vehicles		IN SECTION 6	IN SECTION 6
	70.07	Spare parts (10% of LRV's)		IN SECTION 6	IN SECTION 6
		SUBT	OTAL VEHICLE COST	\$0	\$0
		CONTINGENCY & ENGINEERING STAFF(10%+14%)	24%	\$0	\$0
		то	TAL VEHICLE COSTS	\$0	\$0
30.00	SOFT CO	DSTS			
	80.01	Preliminary Engineering	3.0%	\$8,687,455	\$21,524,565
	80.02	Final Design	4.5%	\$13,031,182	\$32,286,848
	80.03	Project Management for Design and Construction	5.5%	\$15,927,001	\$39,461,703
	80.04	Construction Administration & Management	10.0%	\$28,958,183	\$71,748,551
	80.05	Insurance-Professional liability	1.50%	\$4,343,727	\$10,762,283
	80.06	Legal, Permits, Review Fees by other agencies, cities, etc	1.50%	\$4,343,727	\$10,762,283
	80.07	Survey, Testing, Investigation, Inspection	0.50%	\$1,447,909	\$3,587,428
	80.08	Agency: Force Account Work (2% ^{3,4})	3.5%	\$10,135,364	\$25,111,993
		SUBTOTAL SOFT COSTS	30%	\$86,874,549	\$215,245,652
90.00	CONTING	GENCY (Project Reserve) (10 thru 80)	6.0%	\$22,587,383	\$56,298,670
100.00	FINANCE	E CHARGES		\$O	\$0
110.00	Total Co	nstruction (10+20+30+40+50) (2006\$)		\$289,581,829	\$717,485,508
	OTHER F	PROJECT COST (60+70+80+90+100) (2006\$)		\$109,461,931	\$277,124,322
	TOTAL P	PROJECT COST (10+20+30+40+50+60+70+80+90+100) (200	06\$)	\$399,043,760	\$994,609,829
		Poute foot length		10.260	35,574'
		Route foot length Construction Cost per Route Foot (2006\$)		19,269'	\$20,200
		Construction Cost per Route Foot (2006\$) Construction Cost per Route Mile (2006\$)		\$15,000 \$79,200,000	\$20,200

lono	lulu Hi	gh-Capacity Transit Corridor Project	t	East Kapolei to A	Ala Moana Center
ixed Sumn	Guide nary C	way Alternatives ost Comparison of Alternative Analy st Kapolel to Ala Moana Center)		Preliminary - Not Final (2006\$ with Contingency)	Preliminary - Not Final (2006\$ with Contingency
		date:	05/04/07	Sections & Alignments Section 3	Sections & Alignments Section 4
		Description		Salt Lake Blvd/Dillingham Blvd section 3 alt 2	Dillingham Blvd
				15	18
				Elevated	Elevated
10.00	GUIDEW	AY & TRACK ELEMENTS			
		Guideway: At-grade Exclusive Right-of-way			
				\$203,521,800	\$71,662,950
		Guideway: Aerial structure			· · ·
		Guideway: Underground cut & cover		\$0	\$O
		Guideway: Retained cut or fill		\$0	\$0
	10.09	Track: Direct fixation		\$16,856,100	\$5,935,275
	10.11	Track: Ballasted		\$0	\$0
	10.12	Track: Special (switches, turnouts)		\$1,914,822	\$2,872,233
		SUBTOTAL	GUIDEWAY & TRACK	\$222,292,722	\$80,470,458
	T				
20.00	STATION	IS, STOPS, TERMINALS, INTERMODAL			
	20.01	At-grade station, stop, shelter, mall, terminal, platform		\$0	\$ 0
		Aerial station, stop, shelter, mall, terminal, platform		\$11,737,180	\$17,821,770
		Elevators, escalators		\$6,504,240	\$9,756,360
		SUBTOTAL COST STATIONS, STOPS, TERM	INALS INTERMODAL	\$18,241,420	\$27,578,130
		SOBTOTAL COST STATIONS, STOPS, TERM	IIIVALS, IIVI ERIMODAL	ψ10,241,420	φ2 <i>1</i> ,5 <i>1</i> 6,130
30.00		SHOPS, ADMIN/SUPPORT FACILITIES Administration Building: Office, sales, storage, revenue			
		counting		\$0	\$0
	30.03	Heavy Maintenance Facility		\$0	\$0
	30.04	Storage Building & Yard		"IN 30.03"	"IN 30.03"
		SUBTOTAL COST YARDS, SHOPS, ADMIN/	SUPPORT FACILITIES	\$0	\$0
10.00	SITEWO	RK & SPECIAL CONDITIONS			
	40.01	Demolition, Clearing, Earthwork ¹		\$5,169,204	\$1,820,151
		Site Utilities, Utility Relocation		\$18,860,936	\$72,140,805
		Haz. mat'l, contam'd soil removal/mitigation, ground water treatments		\$154,290	\$2,313,240
		Environmental mitigation, e.g. wetlands, historic/archeologic, parks		\$2,500,000	\$2,500,000
		Site Development: Roads, walks, plazas, parking lots, landscape work			
	40.08	SUBTOTAL COST SITEWORK & S	PECIAL CONDITIONS	\$16,974,210 \$43,658,640	\$5,931,451 \$84,705,647
50.00	SYSTEM	S I			
	50.01	Train control and signals		\$5,943,336	\$2,092,734
	50.02	Traffic signals and crossing protection		\$5,151,512	\$2,835,328
	50.03	Traction power supply: substations		\$8,202,305	\$3,280,922
	50.04	Traction power distribution: catenary and third rail		\$5,618,700	\$1,978,425
	50.05	Communications		\$7,466,628	\$2,629,107
	50.06	Fare collection system and equipment		\$599,424	\$899,136
		Central Control		\$0	\$0
		SUBTO	OTAL COST SYSTEMS	\$32,981,905	\$13,715,652
		SUBTOTAL CONSTRUCTION COSTS		\$317,174,687	\$206,469,887
		202 TO THE GOING HOUSE		\$81,962,115	
		CONTINGENCY (WEIGHTED AVERAGE)		φο1,Σσε,113 	\$59,494,891
		SUBTOTAL CONSTRUCTION COSTS	WITH CONTINGENCY	\$399,136,801	\$265,964,779
		FEE/RISK		in items above	in items a
				\$2,619,335	\$1,745,394
		ADJUSTMENT FOR CASUAL OVERTIME	(2.5% OF DIRECT LABOR)		
		SUBTOTAL CONSTRUCTION COSTS		\$401,756,137	\$267,710,173
		HAWAII STATE EXCISE	4.712%	\$18,930,749	\$12,614,503
		TOTAL CONSTRUCTION COSTS (2006\$)		\$420,686,886	\$280,324,676

ixed Summ	Guide ary C	igh-Capacity Transit Corridor Project way Alternatives ost Comparison of Alternative Analy list Kapolel to Ala Moana Center)		Preliminary - Not Final (2006\$ with Contingency)	Ala Moana Center Preliminary - Not Final (2006\$ with Contingency
		date:	05/04/07	Sections & Alignments Section 3	Sections & Alignments Section 4
		Description		Salt Lake Blvd/Dillingham Blvd	Dillingham Blvd
80.00	ROW, LA	AND, EXISTING IMPROVEMENTS			
	60.01	Purchase or lease of real property		\$4,720,000	\$6,540,000
	60.02	Relocation of existing households and businesses		\$0	\$0
		SUBTOTAL COST ROW, LAND, EXIST	ING IMPROVEMENTS	\$4,720,000	\$6,540,000
		CONTINGENCY & ENGINEERING (40%+10%)	50%	\$2,360,000	\$3,270,000
			TOTAL ROW COSTS	\$7,080,000	\$9,810,000
70.00	VEHICLE	ES I			
	70.01	Light Rail		IN SECTION 6	IN SECTION 6
	70.06	Non-revenue vehicles		IN SECTION 6	IN SECTION 6
l	70.07	Spare parts (10% of LRV's)		IN SECTION 6	IN SECTION 6
		SUBT	OTAL VEHICLE COST	\$0	\$ 0
		CONTINGENCY & ENGINEERING STAFF(10%+14%)	24%	\$0	\$0
		то	TAL VEHICLE COSTS	\$0	\$0
30.00	SOFT CC	DSTS			
	80.01	Preliminary Engineering	3.0%	\$12,620,607	\$8,409,740
	80.02	Final Design	4.5%	\$18,930,910	\$12,614,610
	80.03	Project Management for Design and Construction	5.5%	\$23,137,779	\$15,417,857
	80.04	Construction Administration & Management	10.0%	\$42,068,689	\$28,032,468
	80.05	Insurance-Professional liability	1.50%	\$6,310,303	\$4,204,870
	80.06	Legal, Permits, Review Fees by other agencies, cities, etc	1.50%	\$6,310,303	\$4,204,870
	80.07	Survey, Testing, Investigation, Inspection	0.50%	\$2,103,434	\$1,401,623
	80.08	Agency: Force Account Work (2% ^{3,4})	3.5%	\$14,724,041	\$9,811,364
		SUBTOTAL SOFT COSTS	30%	\$126,206,066	\$84,097,403
90.00	CONTING	GENCY (Project Reserve) (10 thru 80)	6.0%	\$33,238,377	\$22,453,925
100.00	FINANCE	E CHARGES		\$O	\$0
110.00	Total Co	nstruction (10+20+30+40+50) (2006\$)		\$420,686,886	\$280,324,676
	OTHER F	PROJECT COST (60+70+80+90+100) (2006\$)		\$166,524,443	\$116,361,328
	TOTAL P	PROJECT COST (10+20+30+40+50+60+70+80+90+100) (200	D6\$)	\$587,211,328	\$396,686,004
		Route foot length		24,972'	8,793'
		Construction Cost per Route Foot (2006\$)		\$16,800	\$31,900
		Construction Cost per Route Mile (2006\$)		\$88,704,000	\$168,432,000

lono	lulu Hi	gh-Capacity Transit Corridor Projec	t	East Kapolei to A	Ala Moana Center
ixed Sumn	Guide nary C	eway Alternatives ost Comparison of Alternative Analy st Kapolel to Ala Moana Center)		Preliminary - Not Final (2006\$ with Contingency)	Preliminary - Not Final (2006\$ with Contingency
ew Guire	110,000 (20	date:	05/04/07	Sections & Alignments Section 5	Sections & Alignments Section 6
		Description		Dillingham/Nimitz Hwy/Halekauwila St/Kapiolani Blvd to Ala Moana Sta	Systemwide
				25	Alt 11 26
				Elevated	Elevated
10.00	GUIDEW	AY & TRACK ELEMENTS			
		Guideway: At-grade Exclusive Right-of-way			
		Guideway: Aerial structure		\$118,816,510	\$0
		Guideway: Underground cut & cover		\$0	\$0
		Guideway: Retained cut or fill		\$0	\$0
		Track: Direct fixation		\$9,803,700	\$0
		Track: Ballasted		\$0	\$0
		Track: Special (switches, turnouts)		\$5,793,564	\$0
	10.12		GUIDEWAY & TRACK	\$134,413,774	\$0
		308101AL	GOIDEWAT & TRACK	Φ104,410,774	ΨΟ
20.00	STATION	IS, STOPS, TERMINALS, INTERMODAL			
		At-grade station, stop, shelter, mall, terminal, platform		\$0	\$0
		Acrial station, stop, shelter, mall, terminal, platform Aerial station, stop, shelter, mall, terminal, platform		\$36,696,688	\$0
		Aeriai station, stop, sneiter, maii, terminai, piatform Elevators, escalators		\$36,696,688 \$17,945,931	\$0
	20.07		INIAL C INTERMODAL		·
		SUBTOTAL COST STATIONS, STOPS, TERM	IINALS, INTERMODAL	\$54,642,619	\$0
0.00		SHOPS, ADMIN/SUPPORT FACILITIES	_		
		Administration Building: Office, sales, storage, revenue counting		\$0	\$14,758,888
	30.03	Heavy Maintenance Facility		\$0	\$66,456,265
	30.04	Storage Building & Yard		"IN 30.03"	"IN 30.03"
		SUBTOTAL COST YARDS, SHOPS, ADMIN/	SUPPORT FACILITIES	\$0	\$81,215,153
0.00		RK & SPECIAL CONDITIONS		40.000.400	
		Demolition, Clearing, Earthwork ¹		\$3,006,468	\$0
		Site Utilities, Utility Relocation Haz. mat'l, contam'd soil removal/mitigation, ground water		\$126,787,082	\$0
		treatments Environmental mitigation, e.g. wetlands,		\$0	\$0
		historic/archeologic, parks Site Development: Roads, walks, plazas, parking lots,		\$750,000	\$0
	40.06	landscape work SUBTOTAL COST SITEWORK & S	PECIAL CONDITIONS	\$5,406,413 \$135,949,963	\$0 \$0
0.00	SYSTEM	s I			
	50.01	Train control and signals		\$3,456,712	\$0
	50.02	Traffic signals and crossing protection		\$6,336,226	\$0
	50.03	Traction power supply: substations		\$4,921,383	\$0
	50.04	Traction power distribution: catenary and third rail		\$3,267,900	\$0
	50.05	Communications		\$4,342,676	\$0
	50.06	Fare collection system and equipment		\$1,798,272	\$0
	50.07	Central Control		\$0	\$8,529,933
		SUBTO	OTAL COST SYSTEMS	\$24,123,169	\$8,529,933
		SUBTOTAL CONSTRUCTION COSTS		\$349,129,524	\$89,745,086
				\$100,336,736	\$22,436,272
		CONTINGENCY (WEIGHTED AVERAGE)			
		SUBTOTAL CONSTRUCTION COSTS	WITH CONTINGENCY	\$449,466,260	\$112,181,358
		FEE/RISK		in items above	in items
				40.040.000	
		ADJUSTMENT FOR CASUAL OVERTIME	(2.5% OF DIRECT LABOR)	\$2,949,622	\$736,190
		SUBTOTAL CONSTRUCTION COSTS		\$452,415,883	\$112,917,548
		HAWAII STATE EXCISE	4.712%	\$21,317,836	\$5,320,675
		TOTAL CONSTRUCTION COSTS (2006\$)		\$473,733,719	\$118,238,223

ixed Summ	Guide nary C	gh-Capacity Transit Corridor Project way Alternatives ost Comparison of Alternative Analy st Kapolel to Ala Moana Center)		Preliminary - Not Final (2006\$ with Contingency)	Preliminary - Not Final (2006\$ with Contingency
	,	date:	05/04/07	Sections & Alignments Section 5	Sections & Alignments Section 6
		Description		Dillingham/Nimitz Hwy/Halekauwila St/Kapiolani Blvd to Ala Moana Sta	Systemwide
80.00	ROW. LA	AND, EXISTING IMPROVEMENTS			
		Purchase or lease of real property		\$31,800,000	\$ 0
	60.02	Relocation of existing households and businesses		\$1,300,000	\$0
		SUBTOTAL COST ROW, LAND, EXIST	ING IMPROVEMENTS	\$33,100,000	\$0
		CONTINGENCY & ENGINEERING (40%+10%)	50%	\$16,550,000	\$0
			TOTAL ROW COSTS	\$49,650,000	\$0
70.00	VEHICLE	S .			
	70.01	Light Rail		IN SECTION 6	\$162,804,312
	70.06	Non-revenue vehicles		IN SECTION 6	\$4,203,149
	70.07	Spare parts (10% of LRV's)		IN SECTION 6	\$16,280,418
		SUBT	OTAL VEHICLE COST	\$ 0	\$183,287,879
		CONTINGENCY & ENGINEERING STAFF(10%+14%)	24%	\$ 0	\$43,989,091
		то	TAL VEHICLE COSTS	\$0	\$227,276,970
80.00	SOFT CO	DSTS			
	80.01	Preliminary Engineering	3.0%	\$14,212,012	\$3,547,147
	80.02	Final Design	4.5%	\$21,318,017	\$5,320,720
	80.03	Project Management for Design and Construction	5.5%	\$26,055,355	\$6,503,102
	80.04	Construction Administration & Management	10.0%	\$47,373,372	\$11,823,822
	80.05	Insurance-Professional liability	1.50%	\$7,106,006	\$1,773,573
	80.06	Legal, Permits, Review Fees by other agencies, cities, etc	1.50%	\$7,106,006	\$1,773,573
	80.07	Survey, Testing, Investigation, Inspection	0.50%	\$2,368,669	\$591,191
	80.08	Agency: Force Account Work (2% ^{3,4})	3.5%	\$16,580,680	\$4,138,338
		SUBTOTAL SOFT COSTS	30%	\$142,120,116	\$35,471,467
90.00	CONTING	GENCY (Project Reserve) (10 thru 80)	6.0%	\$39,930,230	\$22,859,200
100.00	FINANCE	E CHARGES		\$0	\$0
110.00	Total Co	nstruction (10+20+30+40+50) (2006\$)		\$473,733,719	\$118,238,223
	OTHER F	PROJECT COST (60+70+80+90+100) (2006\$)		\$231,700,346	\$285,607,636
	TOTAL P	PROJECT COST (10+20+30+40+50+60+70+80+90+100) (200	06\$)	\$705,434,065	\$403,845,859
		Route foot length		14,524'	
		Construction Cost per Route Foot (2006\$)		\$32,600	
		Construction Cost per Route Mile (2006\$)		\$172,128,000	

Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis Pricing Sheet Guideway & Trackwork New Start Project (East Kapolei to Ala Moana Center)

		DESCRIPTION	COST			Saratoga Ave/Nort from UHWO-Mal		Fort Weaver Rd to Aloha Stadium		
		DESCRIPTION	ID	QTY	UNIT	Section 1 All	: 5a	Section 2	Alt 1	
10.00 GUIDE	1 WAY & T	2 **RACK ELEMENTS (route miles)	3	4	5	64	65	22	23	
sc10.01-1		Guideway: At-grade Exclusive Single At-Grade Ballasted Trackbed - Open	1	RF	\$260	_	\$0	-	\$	
sc10.01-2 sc10.01-5		Double At-Grade Ballasted Trackbed - Open Single At-Grade Guideway for Paved Track	1	RF RF	\$328 **NOT USED	6,306	\$2,068,368		\$	
sc10.01-6		Double At-Grade Guideway for Paved Track	1	RF	**NOT USED	:				
	10.01	Guideway: At-grade Exclusive		RF			\$2,068,368		\$1	
	10.02	Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED*****	****			**NC	T USED**	**N	OT USED**	
		Guideway: At-grade in mixed traffic								
c10.01-4		Double At-Grade Guideway for Paved Track	1	RF	\$365	0	\$0		\$	
	10.03	Guideway: At-grade in mixed traffic		RF			\$0		\$	
10.01.1		Guideway: Aerial structure		D.E.	47.000	40.000	000 700 007	00.074	4005 005 00	
:10.04-1 10.04-2a		Segmental Aerial Structure (T/R +25 Ft.) Column (6 ft Dia) Standard Aerial Dual Structure (T/R +30 Ft.) CIP	1	RF RF	\$7,989 \$5,993	12,363	\$98,768,007 \$0	33,274	\$265,825,986 \$	
10.04-2		Segmental Aerial Structure (T/R +30 Ft.) Column (6 ft Dia)	1	RF	\$8,086	-	\$0		\$	
10.04-3 10.04-4		Segmental Aerial Structure (T/R +40 Ft.) Column (6 ft Dia)	1	RF	\$8,150		\$0 \$0		\$1	
010.04-4 010.04-5		Segmental Aerial Structure (T/R +50 Ft.) Column (8 ft Dia) Segmental Aerial Structure (T/R +60 Ft.) Column (8 ft dia)	1	RF RF	\$8,452 \$8,709		\$0 \$0		\$1	
c10.04-6		Standard Aerial Dual Structure (T/R +30 Ft.) Cast - in Place	1	RF	\$5,793		\$0		\$	
10.04-6X		FACTOR FOR DOWNTOWN AERIAL STRUCTURE	1	%	30%		\$0		\$1	
	10.04	Guideway: Aerial structure		RF		12,363	\$98,768,007	\$33,274	\$265,825,98	
	10.05	Guideway: Built-up fill not used************************************								
10.00.1		Guideway: Underground cut & cover			***************************************					
c10.06-1 c10.06-2		Cut & Cover, Tunnel (TBM), Portal, U Wall (Hotel St / Kawaiano / K U-Wall Retained Cut Dual Track Portal (Avg. Depth 25 ft)	1	RF RF	\$34,090 \$12,898		\$0 \$0	1,500	\$19,347,00	
	10.06	Guideway: Underground cut & cover		RF			\$0		\$19,347,00	
		Guideway: Underground tunnel					0.11			
10.07-1		Tunnel, Portal and U-Wall (Hotel Waimanu / Kapiolani Blvd)	1	RF	\$31,308		\$0	-	\$	
:10.07-2 :10.07-3		Tunnel, Portal and U-Wall (North King \ Bertania St \ S King St) Tunnel, Portal and U-Wall (Dillingham \ Bertania St \ S King St)	1	RF RF	\$25,129 \$25,129		\$0 \$0	-	\$	
10.07-3		Tunnel, Portal and U-Wall (King St Option 1 sta 1315+55 to 1408+9)	1	RF	\$26,088		\$0		\$	
10.07-5		Tunnel, Portal and U-Wall (King St Option 2 sta 1348+50 to 1408+9)	1	RF	\$27,920		\$0		\$	
	10.07	Guideway: Underground tunnel		-			\$0		\$	
		Guideway: Retained cut or fill								
sc10.08-1 sc10.08-2		Abutment Double At-Grade (Avg. D. T/R +10 Ft.) 100 ft length Abutment Single At-Grade (Avg. D. T/R +10 Ft.)	1	RF RF	\$12,367 \$6,162	600	\$7,420,200 \$0	800	\$9,893,600 \$1	
	10.08	Guideway: Retained cut or fill		RF			\$7,420,200		\$9,893,60	
		Track: Direct fixation								
sc10.09-1 sc10.09-2		Direct Fixation Track - Single Direct Fixation Dual Track	1	RF RF	\$435 \$675	12.062	\$0 \$8,750,025	34,074	\$22,999,950	
010.09-2			1		2019	12,963		34,074		
	10.09	Track: Direct fixation		RF			\$8,750,025		\$22,999,95	
c10.10-1		Track: Embedded/Paved Paved Track (In Street) - Single	1	RF	\$667		\$0		\$	
c10.10-2		Paved Track (In Street) - DUAL	1	RF	\$1,250		\$0		\$	
	10.10	Track: Embedded/Paved		RF			\$0		\$1	
		Track: Ballasted								
c10.11-1		Ballasted Track (Open) - Single	1	RF	\$247		\$0		\$	
c10.11-2		Ballasted Track (Open) - Double	1	RF	\$502	6,306	\$3,165,612	1,500	\$753,00	
	10.11	Track: Ballasted		RF			\$3,165,612		\$753,00	
		Track: Special (switches, turnouts)			Name of the Party			1.00		
c10.12-1 c10.12-2		Double Crossover DF (No. 10) Double Crossover Ballasted (No. 10)	1	EA EA	\$957,411 \$804,040	2	\$1,914,822 \$804,040	4	\$3,829,64 \$804,04	
c10.12-2		No. 6 Turnout - DF	1	EA	\$282,314	1	\$004,040		\$604,04	
010.12-4		No. 5 Turnout - DF	1	EA	\$135,258		\$0		\$	
210.12-5 210.12-6		Permanent Terminal, Direct Fixation Grade Crossing Panels (Dual Track)	1	EA EA	\$24,549 \$650	2 310	\$49,098 \$201,500	0	\$1	
	10.12	Track: Special (switches, turnouts)		LS			\$2,969,460		\$4,633,684	
		Track: Vibration and noise dampening								
c10.13-1		Track Vibration and Noise Dampening	1	RF	\$1,074	\$ -	\$0		\$	
		The second secon			11.00		\$0			
	10.13	Vibration and noise dampening		RF			ΦUII		\$	

Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis Pricing Sheet Guideway & Trackwork New Start Project (East Kapolei to Ala Moana Center)

10.00 GUIDEW csc10.01-1 csc10.01-2 csc10.01-5 csc10.01-6 csc10.01-4 csc10.04-1 csc10.04-2 csc10.04-2 csc10.04-3	1 /AY & T	PESCRIPTION 2 RACK ELEMENTS (route miles) Guideway: At-grade Exclusive Single At-Grade Ballasted Trackbed - Open Double At-Grade Ballasted Trackbed - Open Single At-Grade Guideway for Paved Track Double At-Grade Guideway for Paved Track Guideway: At-grade Exclusive Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic Guideway: Aerial structure Segmental Aerial Structure Segmental Aerial Structure (T/R +25 Ft.) Column (6 ft Dia)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	QTY 4 RF RF RF RF RF RF	\$260 \$328 **NOT USED **NOT USED	Section 3 A	\$0 \$0 \$0	Section 4 A 40	41 \$ \$
esc10.01-1 csc10.01-2 csc10.01-5 csc10.01-6 esc10.01-4	10.01	Guideway: At-grade Exclusive Single At-Grade Ballasted Trackbed - Open Double At-Grade Ballasted Trackbed - Open Single At-Grade Guideway for Paved Track Double At-Grade Guideway for Paved Track Guideway: At-grade Exclusive Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic	1 1 1 1 1	RF RF RF RF	\$260 \$328 **NOT USED	26 - - - -	\$0 \$0	- - - -	\$
esc10.01-2 esc10.01-5 esc10.01-6	10.02	Single At-Grade Ballasted Trackbed - Open Double At-Grade Ballasted Trackbed - Open Single At-Grade Guideway for Paved Track Double At-Grade Guideway for Paved Track Guideway: At-grade Exclusive Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic		RF RF RF	\$328 **NOT USED		\$0		\$
esc10.01-2 esc10.01-5 esc10.01-6	10.02	Single At-Grade Ballasted Trackbed - Open Double At-Grade Ballasted Trackbed - Open Single At-Grade Guideway for Paved Track Double At-Grade Guideway for Paved Track Guideway: At-grade Exclusive Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic		RF RF RF	\$328 **NOT USED	i	\$0		\$
esc10.01-5 esc10.01-6 esc10.01-4 esc10.04-1 sc10.04-2a esc10.04-2	10.02	Single At-Grade Guideway for Paved Track Double At-Grade Guideway for Paved Track Guideway: At-grade Exclusive Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: At-grade in mixed traffic Guideway: Aerial structure		RF RF	**NOT USED	<u> </u>		<u> </u>	
esc10.01-6 esc10.01-4 esc10.04-1 sc10.04-2a esc10.04-2	10.02	Double At-Grade Guideway for Paved Track Guideway: At-grade Exclusive Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: Aerial structure		RF RF	**NOT USED	•	\$0	- + -	
esc10.04-1 sc10.04-2a esc10.04-2	10.02	Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED**** Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: Aerial structure					\$0		
esc10.04-1 sc10.04-2a esc10.04-2		Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: Aerial structure							\$0
esc10.04-1 sc10.04-2a esc10.04-2	10.03	Double At-Grade Guideway for Paved Track Guideway: At-grade in mixed traffic Guideway: Aerial structure	1			**N	OT USED**	**NC	DT USED**
esc10.04-1 sc10.04-2a esc10.04-2	10.03	Guideway: At-grade in mixed traffic Guideway: Aerial structure	1						
sc10.04-2a csc10.04-2	10.03	Guideway: Aerial structure		RF	\$365	-	\$0	0	\$0
sc10.04-2a csc10.04-2				RF			\$0		\$0
sc10.04-2a csc10.04-2		Segmental Aerial Structure (T/R +25 Ft.) Column (6 ft Dia)					0.00		
csc10.04-2		Standard Aerial Dual Structure (T/R +30 Ft.) CIP	1	RF RF	\$7,989 \$5,993		\$0 \$0		\$0 \$0
csc10.04-3		Segmental Aerial Structure (T/R +30 Ft.) Column (6 ft Dia)	1	RF	\$8,086		\$0		\$0
40 04 4		Segmental Aerial Structure (T/R +40 Ft.) Column (6 ft Dia)	1	RF	\$8,150	24,972	\$203,521,800	8,793	\$71,662,950
esc10.04-4 esc10.04-5		Segmental Aerial Structure (T/R +50 Ft.) Column (8 ft Dia) Segmental Aerial Structure (T/R +60 Ft.) Column (8 ft dia)	1	RF RF	\$8,452 \$8,709	-	\$0 \$0		\$C \$C
esc10.04-6 sc10.04-6X		Standard Aerial Dual Structure (T/R +30 Ft.) Cast - in Place FACTOR FOR DOWNTOWN AERIAL STRUCTURE	1	RF %	\$5,793 30%		\$0 \$0	-	\$0
3010.04-07	10.04	Guideway: Aerial structure		RF	30%[\$24,972	\$203,521,800	\$8,793	\$71,662,950
	10.05	Guideway: Built-up fill not used************************************				V2-1,51-2	V 233,321,333	\$3,100	V. 1,552,555
	10.03								
csc10.06-1		Guideway: Underground cut & cover Cut & Cover, Tunnel (TBM), Portal, U Wall (Hotel St / Kawaiano / K	1	RF	\$34,090		\$0	2	\$0
esc10.06-2		U-Wall Retained Cut Dual Track Portal (Avg. Depth 25 ft)	1	RF	\$12,898	•	\$0		\$0
	10.06	Guideway: Underground cut & cover		RF			\$0		\$0
		Guideway: Underground tunnel					9.13		
csc10.07-1		Tunnel, Portal and U-Wall (Hotel Waimanu / Kapiolani Blvd)	1	RF	\$31,308		\$0		\$0
esc10.07-2 esc10.07-3		Tunnel, Portal and U-Wall (North King \ Bertania St \ S King St) Tunnel, Portal and U-Wall (Dillingham \ Bertania St \ S King St)	1	RF RF	\$25,129 \$25,129		\$0 \$0		\$0
csc10.07-4		Tunnel, Portal and U-Wall (King St Option 1 sta 1315+55 to 1408+9)	1	RF	\$26,088	-	\$0		\$0
esc10.07-5	40.07	Tunnel, Portal and U-Wall (King St Option 2 sta 1348+50 to 1408+9)	1	RF	\$27,920	<u>- '</u>	\$0	•	\$0
	10.07	Guideway: Underground tunnel		-			\$0		\$0
		Guideway: Retained cut or fill							
csc10.08-1 csc10.08-2		Abutment Double At-Grade (Avg. D. T/R +10 Ft.) 100 ft length Abutment Single At-Grade (Avg. D. T/R +10 Ft.)	1	RF RF	\$12,367 \$6,162		\$0 \$0	-	\$C \$C
	10.08	Guideway: Retained cut or fill		RF			\$0		\$0
		Track: Direct fixation							
csc10.09-1		Direct Fixation Track - Single	1	RF	\$435		\$0		\$0
csc10.09-2		Direct Fixation Dual Track	1	RF	\$675	24,972	\$16,856,100	8,793	\$5,935,275
	10.09	Track: Direct fixation		RF			\$16,856,100		\$5,935,275
		Track: Embedded/Paved							
esc10.10-1 esc10.10-2		Paved Track (In Street) - Single Paved Track (In Street) - DUAL	1	RF RF	\$667 \$1,250	-	\$0 \$0	- 1	\$C \$C
	10.10	Track: Embedded/Paved		RF			\$0		\$0
							- 1		
10 11 1		Track: Ballasted		DE	¢047		60		60
esc10.11-1 esc10.11-2		Ballasted Track (Open) - Single Ballasted Track (Open) - Double	1	RF RF	\$247 \$502		\$0 \$0		\$0 \$0
	10.11	Track: Ballasted		RF			\$0		\$0
		Track: Special (switches, turnouts)							
csc10.12-1		Double Crossover DF (No. 10)	1	EA	\$957,411	2	\$1,914,822	3	\$2,872,233
csc10.12-2		Double Crossover Ballasted (No. 10)	1	EA	\$804,040		\$0		\$0
esc10.12-3 esc10.12-4		No. 6 Turnout - DF No. 5 Turnout - DF	1	EA EA	\$282,314 \$135,258		\$0 \$0		\$C \$C
csc10.12-5		Permanent Terminal, Direct Fixation	1	EA	\$24,549	0	\$0	0	\$C \$C
esc10.12-6	10.15	Grade Crossing Panels (Dual Track)		EA	\$650	0	\$0	0	
	10.12	Track: Special (switches, turnouts)		LS			\$1,914,822		\$2,872,233
		Track: Vibration and noise dampening							
esc10.13-1		Track Vibration and Noise Dampening	1	RF	\$1,074	\$ -	\$0 \$		\$0
	10.13	Vibration and noise dampening		RF			\$0		\$0

Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis Pricing Sheet Guideway & Trackwork New Start Project (East Kapolei to Ala Moana Center)

			COST		= ,0	Dillingham/ Hwy/Halekauwila Blvd to Ala M	St/Kapiolani
		DESCRIPTION	ID	QTY	UNIT	Section 1 A	lt 5a
10.00 GUIDEV	1 VAY & 1	2 TRACK ELEMENTS (route miles)	3	4	5	78	79
sc10.01-1		Guideway: At-grade Exclusive Single At-Grade Ballasted Trackbed - Open	1	RF	\$260		
sc10.01-2		Double At-Grade Ballasted Trackbed - Open	1	RF	\$328	3.7	
sc10.01-5 sc10.01-6		Single At-Grade Guideway for Paved Track Double At-Grade Guideway for Paved Track	1	RF RF	**NOT USED **NOT USED	-	
	10.01	Guideway: At-grade Exclusive		RF			
	10.01	Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED****	*****	1		**N	OT USED**
	10.02					14	OT GOLD
sc10.01-4		Guideway: At-grade in mixed traffic Double At-Grade Guideway for Paved Track	1	RF	\$365		
	10.03	Guideway: At-grade in mixed traffic		RF			
10.04.1		Guideway: Aerial structure	4	DE	67.000		
sc10.04-1 sc10.04-2a		Segmental Aerial Structure (T/R +25 Ft.) Column (6 ft Dia) Standard Aerial Dual Structure (T/R +30 Ft.) CIP	1	RF RF	\$7,989 \$5,993	12,505	\$74,942,4
csc10.04-2		Segmental Aerial Structure (T/R +30 Ft.) Column (6 ft Dia)	1	RF	\$8,086	-	
csc10.04-3		Segmental Aerial Structure (T/R +40 Ft.) Column (6 ft Dia)	1	RF	\$8,150	2,019	\$16,454,8
sc10.04-4 sc10.04-5		Segmental Aerial Structure (T/R +50 Ft.) Column (8 ft Dia) Segmental Aerial Structure (T/R +60 Ft.) Column (8 ft dia)	1	RF RF	\$8,452 \$8,709		
csc10.04-6		Standard Aerial Dual Structure (T/R +30 Ft.) Cast - in Place	1	RF	\$5,793	-	
sc10.04-6X		FACTOR FOR DOWNTOWN AERIAL STRUCTURE	1	%	30%	1	\$27,419,1
	10.04	Guideway: Aerial structure		RF		14,524	\$118,816,5
	10.05	Guideway: Built-up fill not used************************************					
		Guideway: Underground cut & cover					
csc10.06-1 csc10.06-2		Cut & Cover, Tunnel (TBM), Portal, U Wall (Hotel St / Kawaiano / k U-Wall Retained Cut Dual Track Portal (Avg. Depth 25 ft)	1	RF RF	\$34,090 \$12,898		
The second second	10.06	Guideway: Underground cut & cover		RF			
		Guideway: Underground tunnel					
sc10.07-1		Tunnel, Portal and U-Wall (Hotel Waimanu / Kapiolani Blvd)	1	RF	\$31,308		
csc10.07-2		Tunnel, Portal and U-Wall (North King \ Bertania St \ S King St)	1	RF	\$25,129		
sc10.07-3		Tunnel, Portal and U-Wall (Dillingham \ Bertania St \ S King St)	1	RF	\$25,129	* 1	
esc10.07-4 esc10.07-5		Tunnel, Portal and U-Wall (King St Option 1 sta 1315+55 to 1408+9 Tunnel, Portal and U-Wall (King St Option 2 sta 1348+50 to 1408+9	1 1	RF RF	\$26,088 \$27,920		
	10.07	Guideway: Underground tunnel		-			
		Guideway: Retained cut or fill					
esc10.08-1 esc10.08-2		Abutment Double At-Grade (Avg. D. T/R +10 Ft.) 100 ft length Abutment Single At-Grade (Avg. D. T/R +10 Ft.)	1	RF RF	\$12,367 \$6,162	:	
	10.08	Guideway: Retained cut or fill		RF			
		Track: Direct fixation					
csc10.09-1 csc10.09-2		Direct Fixation Track - Single Direct Fixation Dual Track	1 1	RF RF	\$435 \$675	14,524	\$9,803,7
	10.09	Track: Direct fixation		RF			\$9,803,7
		Track: Embedded/Paved					
sc10.10-1		Paved Track (In Street) - Single	1	RF	\$667		
sc10.10-2		Paved Track (In Street) - DUAL	1	RF	\$1,250	•	
	10.10	Track: Embedded/Paved		RF			
		Track: Ballasted					
esc10.11-1 esc10.11-2		Ballasted Track (Open) - Single Ballasted Track (Open) - Double	1	RF RF	\$247 \$502	2	
	10.11	Track: Ballasted		RF			
		Track: Special (switches, turnouts)					
sc10.12-1		Double Crossover DF (No. 10)	1	EA	\$957,411	6	\$5,744,4
sc10.12-2		Double Crossover Ballasted (No. 10)	1	EA	\$804,040		
sc10.12-3		No. 6 Turnout - DF	1	EA	\$282,314		
sc10.12-4 sc10.12-5		No. 5 Turnout - DF Permanent Terminal, Direct Fixation	1	EA EA	\$135,258 \$24,549	2	\$49,0
sc10.12-6		Grade Crossing Panels (Dual Track)	1	EA	\$650	0	\$40,0
	10.12	Track: Special (switches, turnouts)		LS			\$5,793,5
		Track: Vibration and noise dampening					
		Track Vibration and Noise Dampening	1	RF	\$1,074	\$ -	
sc10.13-1							

619'779'79\$		051,878,72\$		\$18,241,420		946,886,888		996'089'17\$					SAOTS & SNOIT	ATS IstoT
l e6'9 1 6'1l\$		098,987,6\$		0+2'+09'9\$		08 1 ′800′£1\$		0 + Z'+0 2 '9\$			ㅂ		TOT ELEVATORS & ESCALATORS)Z
270,788,218 08 07 677,6132 270,788,218 270,788,218	اں - - 22	840,727,28 08 08 216,620,78	ا2 - - - 9	SEO,818,1\$ O\$ O\$ 805,989,4\$	8 - - - *	914,275,6\$ 0\$ 0\$ 0\$	9L - - 8	250,818,1\$ 0\$ 0\$ 802,388,4\$	8 - - -	803,4348 803	EA EA EA EA EA		ELEVATORS & ESCALATORS ELEVATORS (40 ff Rise) ELEVATORS (50 ff Rise) ELEVATORS (10 ff Rise) ESCALATORS (10 ff Rise) ESCALATORS (10 ff Rise)	1-70.0Soso S-70.0Soso S-70.0Soso A-70.0Soso B-70.0Soso
NOT USED		NOT USED**	V**	N2ED**	LON**	T USED**	ON**	⊃T USED**	DN**				MOOBILE PARKING MULTISTORY STRUCTURE 80.0	SC
NOT USED		NOT USED**	V**	∩SED**	LON**	T USED**	ON**	OT USED**	DN**				O.65 JOINT DEVELOPMENT	סכ
NOT USED		NOT USED**	V**	∩∂ED**	LON**)T USED**	ON∗∗	OT USED**	DN∗∗				Other Stations & Pedestrian Tunnels)Z
o \$		0\$		o\$		0\$		0\$			RF		SOG UNDERGROUND STATIONS	50
O\$ O\$	2	O\$ O\$	1	0\$ 0\$:	0\$ 0\$	-	0\$ 0\$	1	FSC,271,38\$	\$1 \$1	ļ	Underground Station with Center Platform and Mezzanine Underground Station with Center Platform without Mezzanine	1-80.0Soeo S-80.0Soeo
													UNDERGROUND STATIONS	
889'969'9ɛ\$		077,128,71\$		081,757,11\$		09£,297,82\$		081,188,11\$			RF		SUOITATS JAIREA SO.0	50
081,188,118 0\$ 077,686,718 051,188,118	; ; ;	0\$ 0\$ 0\$ 0\$	- - - - E	063,046,2\$ 08 08,085,387,2\$ 083,046,2\$	- - - !	0\$ 0\$ 0\$ 0\$ \$	- - - - *	081,188,11\$ 0\$ 0\$ 0\$	- - - Z	065,046,58 018,041,68 018,041,68 018,485,68 018,485,68	\$1 \$1 \$1 \$1 \$1		AERIAL STATIONS Aerial Station - SidePlatforms. Major (270 Ft. L.) Mezzanine Aerial Station - SidePlatforms. Major (270 Ft. L.) No Mezzanine Aerial Station - Stacked SidePlatforms. Major (270 Ft. L.) No Mezzanine Aerial Station - Stacked SidePlatforms. Major (270 Ft. L.) Mezzanine Aerial Station - Center Platforms. Major (270 Ft. L.) Mezzanine	1-20.02oso 2-20.02oso 2-20.02oso-4 6-20.02oso-5
0\$		o\$		o\$		989'961'8\$		989'961'8\$		1	RF		SNOITATS EDARED TA 10.0	SC
0\$	7. -), 7.	0\$		0\$	-	969,391,6\$	ı	965,7961,6\$	ı	989'961'8\$	S٦	ı	At-Grade Station - Split Side Platform (270 Ft. L.)	f-10.0Spsp
													AT GRADE STATIONS	
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ngham/Nimitz /Halekauwila olani Blvd to Ala Moana Sta ection 1 Mt 5	\ywH oiqeX\t2 M	am Blvd	sdgnilliQ	The second secon	Salt Lake Blvd/I	w	Fort Weaver R Stadiu	VO-Makai no	A/9vA sgorrs& VHU mort bA Statio Station 1	TINO	ΥГ	COST	DESCRIPTION	
SECTION 5		† NOI	SECTI	81	SECTION	15	SECTION	I I N∙	SECTIO	sis	usly.	A ə	الع Cost Comparison of Alternativ	
											၁ခ၂ဝ	Ъr	lu High-Capacity Transit Corridor iuideway Alternatives	

NOT USED 30.05 MAINTENANCE OF WAY BUILDING & YARD NOT USED******* "IN 30.02" 30.04 STORAGE BUILDING & YARD **NOT USED** 30.02 LIGHT MAINTENANCE FACILITY NOT USED******* \$92,456,265 **BF** 30.03 HEAVY MAINTENANCE FACILITY SI Heavy Maintenance Facility and Yard \$92,924,99\$ S-S0.08080 992,934,99\$ ST Storage Track & Running Repair Maintenance Bldg f-20.08525 HEAVY MAINTENANCE FACILITY 30.01 ADMINISTRATION BUILDING: OFFICE, SALES, STORAGE, REVENUE COUNTING 888'897,41\$ ВE 888'897,41\$ ST f-f0.0£3e3 888,887,41\$ Administration Building & Site Facilities ADMINISTRATION BUILDING: OFFICE, SALES, STORAGE, REVENUE COUNTING 30.00 YARDS, SHOPS, ADMIN/SUPPORT FACILITIES (20 ACRES) 18 08 TINU YTΩ ID DESCRIPTION Systemwide COST YARDS, SHOPS, ADMIN/SUPPORT FACILITIES Summary Cost Comparison of Alternative Analysis Fixed Guideway Alternatives Honolulu High-Capacity Transit Corridor Project

881,215,153

Total YARDS, SHOPS ADMINISTRATION SUPPORT FACILITIES

Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis Pricing Sheet Sitework & Special Conditions

					Saratoga Avo/N	North South Rd	Fort Wasser I	2d to Alal
COST ID FTA Cod	e DESCRIPTION	QTY	UNIT	UNIT COST	from UHWO-	North-South Rd Makai Station n 1 Alt 5	Fort Weaver I Stadio Section 2	um
0.00 Sitework & Special Co		40.A 40.AG	AE	RIAL ALIGNMENT ADE ALIGNMENT	12,363 6,906	TTAILS	33,274 2,300	AILI
SC40.01-1	Demolition: Urban	1	RF	\$207	0,000	\$0	35,574	\$7,36
SC40.01-2 SC40.01-3	Demolition: Rural Demolition: Residential	1	RF RF	\$22 \$53	6,906	\$0 \$366,018	,	+.,
6C40.01-8 6C40.01-5	Clear and Grubbing Earthwork	1	RF RF	\$62 in guideway	34,000	\$2,108,000	1,600	\$9
6C40.01-6	Building Mitigation (Underpinning, etc)	1	RF	\$4,672,938		\$0		
C40.01-7	Building Mitigation (Parking Structure Demolition & Reconstruction)	1	SF	\$532		\$0		
40.01	Demo Clearing & Sitework					\$2,474,018	\$35,574	\$7,46
C40.02-1 C40.02-7	UTILITIES BASED ON 1992 INFORMATION Utility: REMOVALS	1 1	RF RF	\$81 \$54	19,269 19,269	\$1,560,789 \$1,040,526	35,574 35,574	\$2,88 \$1,92
C40.02-8	SECTION 1: ELECTRICAL & COMMUNICATION- KAMOKILA BLVD	1	LS	\$11,661,300	_	\$0	_	
C40.02-9	SECTION 1: ELECTRICAL & COMMUNICATION- KAPOLEI BLVD	1	LS	\$10,140,835	_	\$0	_	
040.02-10	SECTION 1: ELECTRICAL & COMMUNICATION- SARATOGA BLVD	1	LS	\$14,919,197		\$0		
40.02-10a	SECTION 1: ELECTRICAL & COMMUNICATION- MOS 1 SARATOGA BLVD				1	\$9.914.625	-	
	SECTION 1: ELECTRICAL & COMMUNICATION- GEIGER/FT	1	LS	\$9,914,625	'	, ,	-	
C40.02-11	WEAVER BLVD	1	LS	\$8,585,817	-	\$0	-	
040.02-12	SECTION 2: ELECTRICAL & COMMUNICATION- FARRINGTON BLVD	1	LS	\$12,628,933	-	\$0	1	\$12,62
	SECTION 3; ELECTRICAL & COMMUNICATION- SALT							
040.02-13	LAKE/NORTH KING BLVD	1	LS	\$16,069,810	-	\$0	-	
	SECTION 3: ELECTRICAL & COMMUNICATION- SALT							
C40.02-14	LAKE/DILLINGHAM BLVD	1	LS	\$15,489,716	-	\$0	-	
C40.02-15	SECTION 3: ELECTRICAL & COMMUNICATION- MAUKA SIDE OF AIRPORT VIADUCT	1	LS	\$110,634,239	-	\$0	_	
	SECTION 3: ELECTRICAL & COMMUNICATION- MAKAI	•	-			40		
240.02-16	SIDE OF AIRPORT VIADUCT ELEVATED SECTION 3: ELECTRICAL & COMMUNICATION- MAUKA	1	LS	\$90,946,739	-	\$0	-	
40.02-17	SIDE OF AIRPORT VIADUCT	1	LS	\$22,388,642	-	\$0	-	
C40.02-18	SECTION 3: ELECTRICAL & COMMUNICATION- AOLELE ST	1	LS	\$21,606,054	-	\$0	-	
240.02-19	SECTION 4: ELECTRICAL & COMMUNICATION- DILLINGHAM BLVD	1	LS	\$70,953,750	-	\$0	-	
C40.02-20	SECTION 4: ELECTRICAL & COMMUNICATION- KING ST	1	LS	\$48,825,000	_	\$0	_	
040.02-21	SECTION 4: ELECTRICAL & COMMUNICATION- MIDDLE ST	1	LS	\$299,250	-	\$0	-	
	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH							
040.02-22	KING ST/HOTEL ST/KAWAIAHAO ST/KAPIOLANI BLVD SECTION 5: ELECTRICAL & COMMUNICATION-	1	LS	\$133,610,175	-	\$0	-	
240.02-23	DILLINGHAM BLVD/HOTEL ST/KAWAIAHAO ST/KAPIOLANI SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	1	LS	\$135,273,779	-	\$0	-	
040.02-24	KING ST/WAIMANU ST/KAPIOLANI BLVD	1	LS	\$119,605,978	-	\$0	-	
40.02-24a	SECTION 5: ELECTRICAL & COMMUNICATION- MOS 1 NORTH KING ST/WAIMANU ST/KAPIOLANI BLVD	1	LS	\$9,497,964	-	\$0	-	
040.02-25	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM BLVD/HOTEL ST/WAIMANU ST/KAPIOLANI	1	LS	\$121,269,582	_	\$0	_	
C40.02-26	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH KING ST/NIMITZ HWY/QUEEN ST/KAPIOLANI BLVD	1	LS	\$120,324,175	_	\$0	_	
	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM/NIMITZ/QUEENST/KAPIOLANI BLVD		LS			\$0		
040.02-62	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH			\$121,048,364	-		-	
040.02-63	KING / NIMITZ / HALEKAUWILA ST / KAPIOLANI SECTION 5:MOS 2a :NORTH KING / NIMITZ /	1	LS	\$152,162,486	-	\$0	-	
40.02-63a	HALEKAUWILA ST / KAPIOLANI SECTION 5:MOS 2a :DILLINGHAM / NIMITZ / HALEKAUWILA	1	LS	\$33,552,021	-	\$0	-	
40.02-63a1	ST / KAPIOLANI SECTION 5: MOS 2b NORTH KING / NIMITZ /	1	LS	\$34,290,694	-	\$0	-	
240.02-63b	HALEKAUWILA ST / KAPIOLANI SECTION 5: MOS 2b Dillingham / NIMITZ / HALEKAUWILA	1	LS	\$52,504,197	-	\$0	-	
40.02-63b1	ST / KAPIOLANI	1	LS	\$53,242,870	-	\$0	-	
040.02-64	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$152,983,234	-	\$0	-	
40.02-64a	SECTION 5: MOS 3 DILLINGHAM / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$124,826,342	-	\$0	-	
040.02-65	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH KING / BERETANIA ST / S KING ST	1	LS	\$61,198,973	_	\$0	_	
240.02-66	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM / BERETANIA ST / S KING ST	1	LS	\$62,813,917		\$0		
740.02-00	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	'	LS	\$02,615,917	-	\$0	-	
040.02-68	KING ST/WAIMANU ST/KAPIOLANI BLVD (short Tunnel King st)	1	LS	\$164,208,791	_	\$0	-	
	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM BLVD/HOTEL ST/WAIMANU ST/KAPIOLANI							
040.02-69	BLVD (long Tunnel King st SECTION 5: ELECTRICAL & COMMUNICATION- WAIKIKI	1	LS	\$165,872,395	-	\$0	-	
40.02-67	SPUR	1	LS	\$60,625,729	\$0 ok	\$0	\$0 ok	
40.0	2 UTILITIES BASED ON 1992 INFORMATION	1	RF		OK .	\$12,515,940	OK .	\$17,4
SC40.03-1	Hazardous Material Mitigation: Petrochemical Contaminated Excavation	1	TON	\$185.00	1,283	\$237,355	17,571	\$3,2
6C40.03-1	Hazardous Material Mitigation: Groundwater treatment	1	GAL	\$160.00	\$0	\$0	\$0	Ψ∪,∠
	Hazardous Material Mitigation: Potrophomical Contaminated							
40.0	Hazardous Material Mitigation: Petrochemical Contaminated 3 Excavation					\$237,355		\$3,2
	Environmental Mitigation: Allowance for Biological and							
SC40.04-1	Archeological/Historical Monitoring	1	ALLOW			\$750,000		\$2,5
	Environmental mitigation e.g. wetlands historia/arabasis							
40.0	Environmental mitigation, e.g. wetlands, historic/archeologic, 4 parks					\$750,000		\$2,5
	Site Development: Roads, Walkways, Landscaping							
SC40.06-1	Street Construction Adj. to LRT - One Lane	1	RF	\$295	0	\$0	33,974	\$10,0
SC40.06-1a SC40.06-17	Turn Pocket (100 ft) Intersection Modification Type 1	1 1	RF LS	\$204 \$146,075	0 0	\$0 \$0	6,440 4	\$1,3 \$5
SC40.06-18 SC40.06-19	Intersection Modification Type 2 Intersection Modification Type 3	1 1	LS LS	\$110,599 \$78,372	0	\$0 \$0	3 4	\$3: \$3
SC40.06-19 SC40.06-21 SC40.06-10	Intersection Modification Type 4 Landscaping & Urban Design: Urban	1	LS	\$32,482	0	\$0	0	φο
SC40.06-11	Landscaping & Urban Design: Rural	1	RF RF	\$187 \$93		\$0 \$0		
SC40.06-12 SC40.06-13	Landscaping & Urban Design Based on 1992 Study Hotel Street Mall Reconstruction	1 1	RF sf	\$130 \$160	19,269 0	\$2,504,970 \$0	35,574 0	\$4,6
SC40.06-14 SC40.06-15	PARK & RIDE AT GRADE PARK & RIDE STRUCTURED	1 1	STALL STALL	\$4,543 \$24,459	2,800	\$12,720,400 \$0	0 1,600	\$39,1
SC40.06-15A SC40.06-16	ACCESS RAMP TO P&R STRUCTURE BUS BAYS	1	SQFT STALL	\$440 \$22,714	40,000 2	\$17,600,000 \$45,428	92,377	\$40,6 \$3
	Public Art (2% of Section 20.00 Stations)	1	STALL %	\$22,714 2%	\$15,076,716	\$45,428 \$301,534	14 \$26,957,896	\$3 \$5
40.06	Site Development: Roads, Walkways, Landscaping					\$33,172,332		\$97,8
	Temporary Facilities					. , [,-
40.08	Temporary Facilities	1		\$0		l		

1 28,472,805

PARSONS BRINCKERHOFF

Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis

Pricing Sheet Sitework & Special Conditions

Section Company Comp	### CONTROLLED CONTROLLED 1	COST	DESCRIPTION	OT/	LINUT	UNIT	Salt Lake Blvd	ı	Dillingha	
Company	Second Company Compa	ID FTA Cod 0.00 Sitework & Special Co					24,972	Alt 2	8,793	Alt 3
1.000 1.00	SCHOOLS Scho	SC40 01-1	Demolition: Urban	1				\$5 169 204		\$1,820
Company	Compared Compared Contents 1	SC40.01-2	Demolition: Rural	1	RF	\$22	24,372	\$0	0,733	\$1,020
1	March Marc	SC40.01-8	Clear and Grubbing	1	RF	\$62	0		0	
Company Comp	Company		Building Mitigation (Underpinning, etc)	1				\$0		
Color	11 11 11 11 11 12 13 13	SC40.01-7		1	SF	\$532		\$0		
Control Life State	1500.000 100.0000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.000000 100.000000 100.000000 100.000000 100.000000 100.000000 100.000000 100.000000 100.000000 100.00000000 100.000000000 100.000000000 100.0000000000	40.01	Demo Clearing & Sitework					\$5,169,204		\$1,820
Colored March Ma	COLDIEST Little MERCHAN COMMUNICATION PROPERTY LITTLE MERCHAN LI									
1.	Section Sect		Utility: REMOVALS	1 1						\$712 \$474
Company Comp	SECTION SECTION ACCORDINATION AND ACCORDINATION 15 15 15 15 15 15 15 1	SC40.02-8	BLVD	1	LS	\$11,661,300	-	\$0	-	
COLOR SECTION SECTION COMPANION SHOWN 1	COLUMN C	SC40.02-9		1	LS	\$10,140,835	-	\$0	-	
SECTION E ESCRIPTION COMMUNICATION ROSES OCCUPY OCCU	SECTION RESTREAM A COMMUNICATION 15 15 15 15 15 15 15 1			1			_			
SECOND S	SECTION SECTION A EXCITATION CONTINUED 1.5 \$1,000,000 50 1.5		SECTION 1: ELECTRICAL & COMMUNICATION- MOS 1	1		, , ,				
PRINCIPATE DESTRUCTION 1	SECTION DESCRIPTION A COMMUNICATION STATE 1		SECTION 1: ELECTRICAL & COMMUNICATION- GEIGER/FT	1						
CODE 2 MARTICIO RECO EL COMPANICACIÓN 1 LO SESSADO - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	Colors Marie Color Col	C40.02-11		1	LS	\$0,000,017	-	20	-	
1	1	C40.02-12		1	LS	\$12,628,933		\$0		
COLORD MARKORITH PRINCIPATION 1	COCCIO ACCIDITACIONES EL COMMUNICATION SET 1		SECTION 3: ELECTRICAL & COMMUNICATION- SALT							
Columber	COLDEST AMERICAN READ 1 93.489770 1	C40.02-13		1	LS	\$16,069,810	-	\$0	-	
SECTION SECTION COMMUNICATION ANALYS SECTION SECTION COMMUNICATION AND	SECTION SECT									
CHECOLOGY SIDE OF AMPORTMANCED LS STOCKED C	Cold 2016	C40.02-14		1	LS	\$15,489,716	1	\$15,489,716	-	
SECTION SECTION SECTION ACCOUNTS AND ADDRESS 1	SECTIONS ELECTRICAL COMMUNICATION NAMES 1.5 \$50,046.79 .	C40.02-15		1	LS	\$110,634,239	-	\$0	-	
SOCIO AMPROPEL MARCO PLANACO SELECTION AND ADDRESS 1	SOCIO-19 SOCIO-19 PROPRIO			•	-	, ,		**		
Section Sect	SECTION SECT	C40.02-16	SIDE OF AIRPORT VIADUCT ELEVATED	1	LS	\$90,946,739	-	\$0	-	
SECTION & ELECTRICAL & COMMUNICATION LS 172,337,70	SECTION ELECTRICAL & COMMUNICATION. 1	040.02-17		1	LS	\$22,388,642	-	\$0	-	
SECTION SECT	1	040.02-18		1	LS	\$21,606,054	-	\$0	-	
### SECTION & ELECTRICAL & COMMUNICATION - NOTITY ### SECTION S ELECTRICAL & COMMUNICATION - NOTITY ### SECTION S ELECTRICAL & COMMUNICATION - NOTITY ### SECTION S ELECTRICAL & COMMUNICATION - 1	SECTION # ELECTRICAL & COMMUNICATION MICHEST 1 LS \$239.250	040.02-19		1	LS	\$70,953,750	-	\$0	1	\$70,95
SECTION & ELECTRICAL & COMMUNICATION MODILE ST LS \$200,200 BD	Section Sect	040.02-20	SECTION 4: ELECTRICAL & COMMUNICATION- KING ST	1	LS	\$48,825,000	-	\$0		
SECTION E RECEITEDAL & COMMUNICATION - NOTITY SECTION E RECEITEDAL & COMMUNICATION - NOTITY	SECTIONS DESCRIPTION ACTION MODIFIED 1					, , ,				
200.0023	ADDITION ADDITION ADDITION	C40.02-21	SECTION 4: ELECTRICAL & COMMUNICATION- MIDDLE ST	1	LS	\$299,250	-	\$0		
2002.02 SOLICITATION STRAMPLIAND 1 1 1 1 1 1 1 1 1	1		SECTION 5: ELECTRICAL & COMMUNICATION- NORTH							
100.025 OLLINGAM BLYCHTCHE ESTAMANIAND STRAPPICADE 1. S 310.0273.779 90 -	100225 DILLINGHAM BENDMENTE ETRAMPASHANG STAMPHOLAN 1	040.02-22	KING ST/HOTEL ST/KAWAIAHAO ST/KAPIOLANI BLVD	1	LS	\$133,610,175	-	\$0	-	
ACCIDATE ADDRESS 1	ACCIDENT SINCE PRIVATE AND STRAPPICAL ACCIDANT MOST 1	240.02-23	DILLINGHAM BLVD/HOTEL ST/KAWAIAHAO ST/KAPIOLANI	1	LS	\$135,273,779	-	\$0	-	
### 4002-24 ### MORTH RROS TYMANANU STRANDLANE BLVD ### 1002-25 ##	MOZEZ-64 SICTION SERVING STANDALAND STANDALON BLVD 1	040.02-24	KING ST/WAIMANU ST/KAPIOLANI BLVD	1	LS	\$119,605,978	-	\$0	-	
SECTION & ELECTRICAL & COMMUNICATION- DELINOPHUM ELECTRICAL SCOMMUNICATION LS \$121,265,692 - 90 -	SECTION & ELECTRICAL & COMMUNICATION:	40.02-24a		1	LS	\$9,497,964	-	\$0		
SECTION & ELECTRICAL & COMMUNICATION. HORTH NEWS STRING PROVIDED STRINGS, AND THE STRINGS PROVIDED STRINGS, AND THE STRINGS PROVIDED STRINGS AND THE STRINGS PROVIDED STRINGS PR	SECTION ELECTRICAL SOMMAINICATION NORTH MING STAMMITS WICKNESS TRANSPOLARIES VID. 1	C40 02-25		1	IS		_			
SECTION S. ELECTRICAL & COMMUNICATION- COLUMN SECTION S. ELECTRICAL & COMMUNICATION- COLUMN SECTION AND S. SECTION A	SECTION S. ELECTRICAL & COMMUNICATION 1		SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	1						
SECTION S.ELECTRICAL COMMUNICATION-NORTH LS \$192.102.466 - 30 - 400.003 MIGN INNET Z.H.A.ELACULAL ST T.A.POPICAN 1 LS \$135.00.007 - 30 - 400.003	SECTION S. ELECTRICAL S. COMMUNICATION. NORTH 1.5 \$192,192,496 . 30 .		SECTION 5: ELECTRICAL & COMMUNICATION-				-		•	
SECTION \$ 100.52 INDRIFF INNO INNOTEZ	SECTION SUCCES 22 NORTH KNOET MINITEZ LES \$33,552.02T 30 -		SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	1			-			
SECTION \$4005 26 DILLINGHAM NINITZ / HARLACAUNIAN 1	SECTION & NOS 22 DILLINGHAM NIMITZ / MALERALWILLA 1	240.02-63		1	LS	\$152,162,486	-	\$0		
10.02.63	10.02-631 ST / APPICAM ST / AP	40.02-63a		1	LS	\$33,552,021	-	\$0		
### ### ### ### ### ### ### ### ### ##	### ### ### ### ### ### ### ### ### ##	40.02-63a1	ST / KAPIOLANI	1	LS	\$34,290,694	-	\$0	-	
10.02-65 ST (ARPOLANI SECTION & SECTION & SECTION & SECTION & SECTION & SECTION & MOS & DULINGHAM / NUMITZ / PALEKALWIA LS \$152,983.234 - \$0 - \$0	10.26.861 ST / KAPICIAN SECTION S ELECTRICAL & COMMUNICATION- S S S S S S S S S	40.02-63b	HALEKAUWILA ST / KAPIOLANI	1	LS	\$52,504,197	-	\$0	-	
A00.02-64 CILLINGH-MAY INIMITZ / HALEKAUNILA ST / KAPICLANI 1	A00.02-64	40.02-63b1	ST / KAPIOLANI	1	LS	\$53,242,870	-	\$0		
### ### ### ### ### ### ### ### ### ##	### 40.02-64a ST KAPIDLANI ST KAPIDLANI SECTION SELECTRICAL & COMMUNICATION - NORTH LS S61,198,6973 - S0 - S0 - S0 - S0 S0 S0	040.02-64		1	LS	\$152,983,234	_	\$0		
SECTION 5: ELECTRICAL & COMMUNICATION- NORTH SECTION 5: ELECTRICAL & COMMUNICATION- NORTH SECTION 5: ELECTRICAL & COMMUNICATION- SECTION 5: ELECTRICAL & COMMUNICATION- SECTION 5: ELECTRICAL & COMMUNICATION- SECTION 5: ELECTRICAL & COMMUNICATION- NORTH KING STAWAMAN STAWAPOLAN ELVO (short Turnel King STAWAMAN) STAWAPOLAN ELVO (short Turnel King STAWAMAN ELV	SECTION 5 ELECTRICAL & COMMUNICATION- NORTH SECTION 5 ELECTRICAL & COMMUNICATION- WAIKIN SECTION 5 ELECTRICAL & SECTION 5 ELECT	40.02-64a		1	LS	\$124.826.342	_	\$0	_	
SECTION 5. ELECTRICAL & COMMUNICATION- LS \$62,813,917 - \$0 -	SECTION 5 ELECTRICAL & COMMUNICATION- 1		SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	·						
SECTION 5: ELECTRICAL & COMMUNICATION- NORTH RING STWAMMAND STRAPPICAL BLUCY DISTRICT TURNER IN STRAIN MANNAND STRAPPICAL BLUCY DISTRICT TURNER IN SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM BLYON-OFTEL STRAINMAND STRAPPICANN 1	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH NING STRAMMANN STRAPPLOLAN BLVD (North Turnel King strain Manual STRAPPLOLAN BLVD (North Manual STRAPPLOLAN BLVD (No		SECTION 5: ELECTRICAL & COMMUNICATION-				-		•	
1	All	240.02-66		1	LS	\$62,813,917	-	\$0	-	
SECTION S. ELECTRICAL & COMMUNICATION- DILINICHAR BLIVATORIA BLIVATORIA STANAIMANU STANAIPOLAN 1	SECTION 5	240 02-68		1	IS	\$164 208 791	_	\$0		
A002-89	A002-69	10.02 00	SECTION 5: ELECTRICAL & COMMUNICATION-		20	\$101,200,101				
Add 1	Add 1	40.02-69	BLVD (long Tunnel King st	1	LS	\$165,872,395	-	\$0		
A0 02 UTILITIES BASED ON 1992 INFORMATION 1 RF S18,880,938 S S18,880,938 S S S S S S S S S	A0.02 UTILITIES BASED ON 1992 INFORMATION 1 RF \$16,860,936 Hazardous Material Mitigation: Petrochemical Contaminated 1 TON \$185,00 834 \$154,200 12,504 Excavation	40.02-67		1	LS	\$60,625,729		\$0	\$0	
Sc40 03-1 Excavation 1 TON \$185.00 834 \$154,290 12,504	Excavation Excavation 1 TON \$185.00 834 \$154,290 12.504	40.0	2 UTILITIES BASED ON 1992 INFORMATION	1	RF		ok	\$18,860,936	ok	\$72,14
Sc40 03-1 Excavation 1 TON \$185.00 834 \$154,290 12,504	Excavation Excavation 1 TON \$185.00 834 \$154,290 12.504									
Hazardous Material Mitigation: Petrochemical Contaminated	Hazardous Material Mitigation: Petrochemical Contaminated	2042.00.4			TON	#40F 00	204	0454.000	10.501	#0.04
## SC40 04-1 Environmental Mitigation: Allowance for Biological and Archeological/Historical Monitoring 1 ALLOW \$2,500,000 \$2	## SC40 04-1 Environmental Mitigation: Allowance for Biological and Archeological/historical Monitoring 1			1						\$2,31
## SC40 04-1 Environmental Mitigation: Allowance for Biological and Archeological/Historical Monitoring 1 ALLOW \$2,500,000 \$2	## SC40 04-1 Environmental Mitigation: Allowance for Biological and Archeological/historical Monitoring 1									
Environmental mitigation, e.g. wetlands, historic/archeologic, 40.04 parks \$2,500,000 \$2,5	Environmental mitigation, e.g. wetlands, historic/archeologic, 40.04 parks Sz,500,000	40.0						\$154,290		\$2,31
Environmental mitigation, e.g. wetlands, historic/archeologic, 40.04 parks \$2,500,000 \$2,5	Environmental mitigation, e.g. wetlands, historic/archeologic, 40.04 parks Sz,500,000							,		,
Environmental mitigation, e.g. wetlands, historic/archeologic, 40.04 parks \$2,500,000 \$2,5	Environmental mitigation, e.g. wetlands, historic/archeologic, 40.04 parks Sz,500,000		Environmental Militarian: Allevenes for Pintonian							
Site Development: Roads, Walkways, Landscaping	Site Development: Roads, Walkways, Landscaping	SC40.04-1		1	ALLOW			\$2,500,000		\$2,50
Site Development: Roads, Walkways, Landscaping Sc40,06-1 Street Construction Adj. to LRT - One Lane 1 RF \$295 18,500 \$5,457,500 9,702 \$304,06-1a Tum Pocket (100 ft) 1 RF \$204 2,200 \$448,800 2,690 \$304,06-17 Intersection Modification Type 1 1 LS \$146,075 0 \$50 0 \$30 0 \$304,06-17 Intersection Modification Type 2 1 LS \$110,599 0 \$50 8 \$304,06-19 Intersection Modification Type 3 1 LS \$78,372 0 \$50 0 \$304,06-19 Intersection Modification Type 4 1 LS \$32,482 0 \$50 0 \$304,06-21 Intersection Modification Type 4 1 LS \$32,482 0 \$50 0 \$304,06-21 Intersection Modification Type 4 1 RF \$187 \$504,06-10 Landscaping & Urban Design: Urban 1 RF \$187 \$50 \$304,06-11 Landscaping & Urban Design: Rural 1 RF \$93 \$504,06-11 Landscaping & Urban Design: Rural 1 RF \$93 \$504,06-12 Landscaping & Urban Design Based on 1992 Study 1 RF \$130 24,972 \$3,246,360 8,793 \$304,06-12 Landscaping & Urban Design Based on 1992 Study 1 RF \$130 24,972 \$3,246,360 8,793 \$304,06-13 Holtel Street Mall Reconstruction 1 st \$160 0 0 50 0 \$304,06-14 PARK & RIDE AT GRADE 1 STALL \$4,543 1,650 \$7,495,950 0 \$304,06-14 PARK & RIDE AT GRADE 1 STALL \$4,543 1,650 \$7,495,950 0 \$304,06-15 PARK & RIDE STRUCTURED 1 STALL \$24,499 0 \$504,06-15 PARK & RIDE STRUCTURED 1 STALL \$22,714 4 \$90,856 6	Site Development: Roads, Walkways, Landscaping Site Development: Roads, Walkways, Landscaping									
Site Development: Roads, Walkways, Landscaping SC40.06-1	Site Development: Roads, Walkways, Landscaping SC40.06-1	40.0						\$2,500,000		\$2,50
Street Construction Adj. to LRT - One Lane	Street Construction Adj. to LRT - One Lane	.,,,						. ,		,
SC40.06-1a	SC40.06-1a	SC40 06-1		4	PE	eno-	10 500	QE 457 500	0.700	60.00
SC40.06-18 Intersection Modification Type 2	SC40.06-18 Intersection Modification Type 2	C40.06-1a	Turn Pocket (100 ft)	1	RF	\$204			2,690	\$2,86 \$54
Intersection Modification Type 3	Intersection Modification Type 3	SC40.06-18	Intersection Modification Type 2	1 1	LS	\$110,599			8	\$88
SC40.06-10 Landscaping & Urban Design: Urban 1 RF \$187 \$0 \$0 \$0.00 \$	SC40.06-10 Landscaping & Urban Design: Urban 1 RF \$187 S0 SC40.06-11 Landscaping & Urban Design: Rural 1 RF \$93 S0 SC40.06-12 Landscaping & Urban Design Based on 1992 Study 1 RF \$130 24,972 \$3,246,360 8,793 SC40.06-12 Landscaping & Urban Design Based on 1992 Study 1 RF \$130 24,972 \$3,246,360 8,793 SC40.06-13 Hotel Street Mall Reconstruction 1 sf \$160 0 S0 0 S0 0 SC40.06-14 PARK & RIDE AT GRADE 1 STALL \$4,543 1,650 \$7,495,950 0 SC40.06-15 PARK & RIDE STRUCTURED 1 STALL \$24,459 0 S0 0 S0 0 SC40.06-15 PARK & RIDE STRUCTURED 1 STALL \$24,459 0 S0 0 S0 0 SC40.06-16 BUS BAYS 1 STALL \$22,714 4 \$90,856 6 Public Art (2% of Section 20.00 Stations) 1 % 22% \$11,737,180 \$234,744 \$17,821,770 S14,000 Site Development: Roads, Walkways, Landscaping Temporary Facilities			1 1		\$78,372		\$0		
SC40.06-12 Landscaping & Urban Design Based on 1992 Study 1 RF \$130 24,972 \$3,246,360 8,793 \$5040.06-13 Hotel Street Mail Reconstruction 1 sf \$160 0 \$0 0 \$0 0 \$0 0 \$0 0 \$0 0 \$0 0 \$0	SC40.06-12 Landscaping & Urban Design Based on 1992 Study 1 RF \$130 24,972 \$3,246,360 8,793 SC40.06-13 Hotel Street Mall Reconstruction 1 sf \$160 0 \$0 0 SC40.06-14 PARK & RIDE AT GRADE 1 STALL \$4,543 1,650 \$7,495,950 0 SC40.06-15 PARK & RIDE AT GRADE 1 STALL \$24,459 0 \$0 0 SC40.06-15 PARK & RIDE STRUCTURED 1 SC40.06-15 ACCESS RAMP TO PAR STRUCTURE 1 SQFT \$440 0 \$0 0 0 SC40.06-16 BUS BAYS 1 STALL \$2,714 4 \$90,856 6 Feb. Public Art (2% of Section 20:00 Stations) 1 % 2% \$11,737,180 \$234,744 \$17,821,770 \$17,821,770 \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$17,821,770 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$17,821,770 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$17,821,770 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$17,821,770 \$17,821,770 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$17,821,770 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$17,821,770 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$16,974,210 \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:00 Stations) \$18,000 Feb. Public Art (2% of Section 20:0	SC40.06-10	Landscaping & Urban Design: Urban	1	RF	\$187	ŭ	\$0	,	
SC40.06-14	## PARK & RIDE AT GRADE 1 STALL \$4,543 1,650 \$7,495,950 0 \$C40.06-15 PARK & RIDE STRUCTURED 1 STALL \$24,459 0 \$0 \$0 0 \$0 0 \$0 0 \$0 0 \$0 0 \$0 0 \$0	SC40.06-12	Landscaping & Urban Design Based on 1992 Study	1	RF	\$130				\$1,14
SC40.06-15 PARK & RIDE STRUCTURED 1 STALL \$24,459 0 \$0 0 S0 0 SC40.06-15 ACCESS RAMP TO P&R STRUCTURE 1 SQFT \$440 0 \$0 0 SC40.06-16 BUS BAYS 1 STALL \$22,714 4 \$90.856 6 Public Art (2% of Section 20.00 Stations) 1 % 2% \$11,737,180 \$234,744 \$17,821,770 \$17,821,770 \$17,821,770 \$18,00 \$17,821,770 \$18,00 \$17,821,770 \$18,00 \$17,821,770 \$18,00	SC40.06-15 PARK & RIDE STRUCTURED 1 STALL \$24,459 0 \$0 0 SC40.06-15 ACCESS RAMP TO P&R STRUCTURE 1 SQFT \$440 0 \$0 0 SC40.06-16 BUS BAYS 1 STALL \$22,714 4 \$90,856 6 Public Art (2% of Section 20.00 Stations) 1 % 2% \$11,737,180 \$234,744 \$17,821,770 \$40.06 Site Development: Roads, Walkways, Landscaping Temporary Facilities	SC40.06-14	PARK & RIDE AT GRADE	1 1	STALL	\$4,543	1,650		0	
SC40.06-16 BUS BAYS 1 STALL \$22,714 4 \$90,856 6 \$11,737,180 \$234,744 \$17,821,770 \$40.06 Site Development: Roads, Walkways, Landscaping Temporary Facilities	SC40.06-16 BUS BAYS 1 STALL \$22,714 4 \$90,856 6 \$11,737,180 \$234,744 \$17,821,770 \$10,000 Stations 1 % 2% \$11,737,180 \$234,744 \$17,821,770 \$10,000 Stations 1 % 2% \$11,737,180 \$234,744 \$17,821,770 \$10,000 Stations 1 % \$16,974,210 \$16,974,210 \$16,974,210 \$10,000 Stations 1 % \$10,000 S	SC40.06-15	PARK & RIDE STRUCTURED	1 1	STALL	\$24,459	0	\$0	-	
40.06 Site Development: Roads, Walkways, Landscaping \$16,974,210 Temporary Facilities	40.06 Site Development: Roads, Walkways, Landscaping \$16,974,210 Temporary Facilities		BUS BAYS	1 1	STALL	\$22,714	4	\$90,856	6	\$13 \$35
Temporary Facilities	Temporary Facilities	40.00			7-3	∠ /0	¥11,737,100		Q,OZ1,770	
		40.06						φιο,9/4,210		\$5,93
40.08 Temporary Facilities 1 eq.	40.08 Temporary Facilities 1 \$0		ı ыпрогату насіппеs							
TO JO I TOTAL DO INTERNATION I MILITARIA DE LA CONTRACTOR	· • • • • • • • • • • • • • • • • • • •	40 Nº	Temporary Facilities	1		\$n				
	Total Sitework & Special Conditions 1 LS 43,658,640 8		Total Sitework & Special Conditions	1	LS			43,658,640		84,705,

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Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis Pricing Sheet Sitework & Special Conditions

C OS T ID F1	'A Code DESCRIPTION	QTY	UNIT	UNIT COST	Dillinghan Hwy/Halekauwi Blvd to Ala Section	la St/Kapiola Moana Sta
0.00 Sitework & Spe		40.A 40.AG	AEF	RIAL ALIGNMENT ADE ALIGNMENT	14,524 0	
DSC40.01-1	Demolition: Urban	1	RF	\$207	14,524	\$3,006,
CSC40.01-2	Demolition: Rural	1	RF	\$22	14,524	\$3,006,
CSC40.01-3 CSC40.01-8	Demolition: Residential Clear and Grubbing	1 1	RF RF	\$53 \$62	0	
CSC40.01-5	Earthwork	i 1	RF	in guideway	•	
CSC40.01-6	Building Mitigation (Underpinning, etc) Building Mitigation (Parking Structure Demolition &		RF	\$4,672,938		
CSC40.01-7	Reconstruction)	1	SF	\$532		
	40.01 Demo Clearing & Sitework					\$3,006
SC40.02-1	UTILITIES BASED ON 1992 INFORMATION	1	RF	\$81	14,524	\$1,176
CSC40.02-7	Utility: REMOVALS SECTION 1: ELECTRICAL & COMMUNICATION- KAMOKILA	1	RF	\$54	14,524	\$784
SC40.02-8	BLVD SECTION 1: ELECTRICAL & COMMUNICATION- KAPOLEI	1	LS	\$11,661,300	-	
SC40.02-9	BLVD	1	LS	\$10,140,835	-	
SC40.02-10	SECTION 1: ELECTRICAL & COMMUNICATION- SARATOGA BLVD	1	LS	\$14,919,197	-	
C40.02-10a	SECTION 1: ELECTRICAL & COMMUNICATION- MOS 1 SARATOGA BLVD	1	LS	\$9,914,625	_	
	SECTION 1: ELECTRICAL & COMMUNICATION- GEIGER/FT					
SC40.02-11	WEAVER BLVD	1	LS	\$8,585,817	-	
6C40.02-12	SECTION 2: ELECTRICAL & COMMUNICATION- FARRINGTON BLVD	1	LS	\$12,628,933	-	
	SECTION 3: ELECTRICAL & COMMUNICATION- SALT					
6C40.02-13	LAKE/NORTH KING BLVD	1	LS	\$16,069,810	-	
SC40.02-14	SECTION 3: ELECTRICAL & COMMUNICATION- SALT LAKE/DILLINGHAM BLVD	1	LS	\$15,489,716		
	SECTION 3: ELECTRICAL & COMMUNICATION- MAUKA					
SC40.02-15	SIDE OF AIRPORT VIADUCT	1	LS	\$110,634,239	-	
6C40.02-16	SECTION 3: ELECTRICAL & COMMUNICATION- MAKAI SIDE OF AIRPORT VIADUCT ELEVATED	1	LS	\$90,946,739	-	
	SECTION 3: ELECTRICAL & COMMUNICATION- MAUKA SIDE OF AIRPORT VIADUCT	1	LS			
SC40.02-17				\$22,388,642	-	
6C40.02-18	SECTION 3: ELECTRICAL & COMMUNICATION- AOLELE ST SECTION 4: ELECTRICAL & COMMUNICATION-	1	LS	\$21,606,054	-	
C40.02-19	DILLINGHAM BLVD	1	LS	\$70,953,750	-	
C40.02-20	SECTION 4: ELECTRICAL & COMMUNICATION- KING ST	1	LS	\$48,825,000	-	
SC40.02-21	SECTION 4: ELECTRICAL & COMMUNICATION- MIDDLE ST	1	LS	\$299,250	-	
	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH					
6C40.02-22	KING ST/HOTEL ST/KAWAIAHAO ST/KAPIOLANI BLVD SECTION 5: ELECTRICAL & COMMUNICATION-	1	LS	\$133,610,175	-	
C40.02-23	DILLINGHAM BLVD/HOTEL ST/KAWAIAHAO ST/KAPIOLANI SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	1	LS	\$135,273,779	-	
C40.02-24	KING ST/WAIMANU ST/KAPIOLANI BLVD	1	LS	\$119,605,978	-	
C40.02-24a	SECTION 5: ELECTRICAL & COMMUNICATION- MOS 1 NORTH KING STAVAIMANU ST/KAPIOLANI BLVD	1	LS	\$9,497,964	_	
C40.02-25	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM BLVD/HOTEL ST/WAIMANU ST/KAPIOLANI	1	LS	\$121,269,582		
	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH				-	
6C40.02-26	KING ST/NIMITZ HWY/QUEEN ST/KAPIOLANI BLVD SECTION 5: ELECTRICAL & COMMUNICATION-	1	LS	\$120,324,175	-	
SC40.02-62	DILLINGHAM/NIMITZ/QUEENST/KAPIOLANI BLVD	1	LS	\$121,048,364	-	
6C40.02-63	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH KING / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$152,162,486	-	
C40.02-63a	SECTION 5:MOS 2a :NORTH KING / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$33,552,021	_	
C40.02-63a1	SECTION 5:MOS 2a :DILLINGHAM / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$34,290,694		
	SECTION 5: MOS 2b NORTH KING / NIMITZ /				-	
C40.02-63b	HALEKAUWILA ST / KAPIOLANI SECTION 5: MOS 2b Dillingham / NIMITZ / HALEKAUWILA	1	LS	\$52,504,197	-	
C40.02-63b1	ST / KAPIOLANI SECTION 5: ELECTRICAL & COMMUNICATION-	1	LS	\$53,242,870	-	
6C40.02-64	DILLINGHAM / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$152,983,234	-	
C40.02-64a	SECTION 5: MOS 3 DILLINGHAM / NIMITZ / HALEKAUWILA ST / KAPIOLANI	1	LS	\$124,826,342	1	\$124,826
6C40.02-65	SECTION 5: ELECTRICAL & COMMUNICATION- NORTH KING / BERETANIA ST / S KING ST	1	LS	\$61,198,973	_	
	SECTION 5: ELECTRICAL & COMMUNICATION-					
6C40.02-66	DILLINGHAM / BERETANIA ST / S KING ST SECTION 5: ELECTRICAL & COMMUNICATION- NORTH	1	LS	\$62,813,917	-	
C40.02-68	KING ST/WAIMANU ST/KAPIOLANI BLVD (short Tunnel King st)	1	LS	\$164,208,791	-	
	SECTION 5: ELECTRICAL & COMMUNICATION- DILLINGHAM BLVD/HOTEL ST/WAIMANU ST/KAPIOLANI			4101,200,101		
6C40.02-69	BLVD (long Tunnel King st	1	LS	\$165,872,395	-	
C40.02-67	SECTION 5: ELECTRICAL & COMMUNICATION- WAIKIKI SPUR	1	LS	\$60,625,729	\$0	
	40.02 UTILITIES BASED ON 1992 INFORMATION	1	RF		ok	\$126,787
CSC40.03-1	Hazardous Material Mitigation: Petrochemical Contaminated Excavation	1	TON	\$185.00	-	
CSC40.03-2	Hazardous Material Mitigation: Groundwater treatment	1	GAL	\$1	\$0	
	Hazardous Material Mitigation: Petrochemical Contaminated 40.03 Excavation					
	Environmental Mitigation: Allowance for Biological and					
CSC40.04-1	Environmental Mitigation: Allowance for Biological and Archeological/Historical Monitoring	1	ALLOW			\$75
	Environmental mitigation, e.g. wetlands, historic/archeologic,					
	40.04 parks					\$75
	Site Development: Roads, Walkways, Landscaping					
CSC40.06-1 CSC40.06-1a	Street Construction Adj. to LRT - One Lane Turn Pocket (100 ft)	1 1	RF RF	\$295 \$204	6,919 3,100	\$2,04 \$63
CSC40.06-17	Intersection Modification Type 1	1	LS	\$146,075	0	φυ3.
CSC40.06-18 CSC40.06-19	Intersection Modification Type 2 Intersection Modification Type 3	1	LS LS	\$110,599 \$78,372	0 1	\$78
CSC40.06-21 CSC40.06-10	Intersection Modification Type 4 Landscaping & Urban Design: Urban	1 1	LS RF	\$32,482 \$187	1	\$32
CSC40.06-11	Landscaping & Urban Design: Rural	1	RF	\$93	14 504	¢4.00
CSC40.06-12 CSC40.06-13	Landscaping & Urban Design Based on 1992 Study Hotel Street Mall Reconstruction	1 1	RF sf	\$130 \$160	14,524 0	\$1,888
CSC40.06-14 CSC40.06-15	PARK & RIDE AT GRADE PARK & RIDE STRUCTURED	1	STALL STALL	\$4,543 \$24,459	0	
CSC40.06-15A	ACCESS RAMP TO P&R STRUCTURE	1	SQFT	\$440	0	
CSC40.06-16	BUS BAYS Public Art (2% of Section 20.00 Stations)	1 1	STALL %	\$22,714 2%	- \$36,696,688	\$73
	40.06 Site Development: Roads, Walkways, Landscaping					\$5,40
	Temporary Facilities					+3,40
	40.08 Temporary Facilities	1		\$0		

Honolulu High-Capacity Transit Corridor Project **Fixed Guideway Alternatives** Summary Cost Comparison of Alternative Analysis Pricing Sheet

Systems

	DESCRIPTION	COST	QTY	UNIT	South UHW(Sta	Ave/North- Rd from D-Makai ation	Aloha	aver Rd to Stadium n 2 Alt 1
	DEGGRIF HON		٠	5	CCCIIC	30	000110	9
50.00 Systems				ALIGNMENT	19,269		35,574	
	Train Control & Signals					3		
csc50.01-1 csc50.01-2	ATC, Signal System Line Stations Highway Crossing Warning Devices (Preemptive)	1 1	RF EA	\$238 \$235,278	19,269 8	\$4,586,022 \$1,882,224	\$35,574 \$0	\$8,466,612 \$0
50.01	Train Control & Signals		RF			\$6,468,246		\$8,466,612
	Guideway: At-grade semi-exclusive (allows cross-traffic) NOT	USED******	**	**NOT USED**		IOT USED**	**NOT USED**	
	Traffic Signals and Crossing Protection							
csc50.02-1 csc50.02-2	Traffic Signal Modifications (4 directions) Traffic Signal Modifications (3 directions)	1 1	EA EA	\$376,047 \$289,523	0	\$0 \$0	\$13 \$11	\$4,888,611 \$3,184,753
50.02	Traffic Signals and Crossing Protection		RF			\$0		\$8,073,364
	Traction Power Supply: Substations							
cs <mark>c50.03</mark> -1	Traction Power Substations (2 MW)	1	EA	\$1,640,461	4	6,561,844	7	11,483,227
50.03	Traction Power Supply: Substations		RF			\$6,561,844		\$11,483,227
	T							
csc50.04-1	Traction Power Distribution: Catenary and Thi Traction Power Supply - At-Grade OCS, Dual Track	ird Raii 1	RF	\$315	6,906	\$2,175,390	\$2,300	\$724,500
csc50.04-2	Traction Power Supply - Subway OCS, Double Track	1	RF	\$216	-	\$0	\$1,500	\$324,000
csc50.04-3 csc50.04-4	Traction Power Supply - Aerial OCS, Dual Track Traction Power Supply - Aerial OCS, Single Track	1 1	RF RF	\$225 \$170	12,363 -	\$2,781,675 \$0	\$33,274 \$0	\$7,486,650 \$0
50.04	Traction Power Distribution: Catenary and Third Rail		RF			\$4,957,065		\$8,535,150
	Communication							
csc50.05-1	Communications System - Dual Track	1	LS	\$299	19,269	\$5,761,431	\$35,574	\$10,636,626
50.05	Communication		-			\$5,761,431		\$10,636,626
	Fare Collection System and Equipment							
csc50.06-1	Fare Vending Equipment Underground Stations	1	LS	\$584,612	-	\$0	-	\$0
csc50.06-2	Fare Vending Equipment Aerial & At Grade Stations	1	LS	\$299,712	3	\$899,136	5	\$1,498,560
50.06	Fare Collection System and Equipment		RF			\$899,136		\$1,498,560
csc50.07	Central Control Central Control Facility	1	LS	\$8,529,933	5 <u>U</u> —	\$0	, ų –	\$0
				Ψ0,029,933	1-7			
50.07	Central Control		RF			\$0		\$0

Honolulu High-Capacity Transit Corridor Project Fixed Guideway Alternatives Summary Cost Comparison of Alternative Analysis

Pricing Sheet Systems

						C-14	T -1 -		
			COST				Lake gham Blvd	Dillingh	am Blvd
		DESCRIPTION	ID	QTY	UNIT		ion 3		tion 4
		DECOMM HON		<u> </u>	0.1.1	0000	11	000	18
50.00 Syste	ems				ALIGNMENT	24,972	111	8,793	
		Train Control & Signals					1000000		
csc50.01-1		ATC, Signal System Line Stations	1	RF	\$238	\$24,972	\$5,943,336	\$8,793	\$2,092,734
csc50.01-2		Highway Crossing Warning Devices (Preemptive)	1	EA	\$235,278	\$0	\$0	\$0	\$0
	50.01	Train Control & Signals		RF			\$5,943,336		\$2,092,734
		Guideway: At-grade semi-exclusive (allows cross-traffic) NOT USED************************************				**1	IOT USED**	**1	NOT USED**
		Traffic Signals and Crossing Protection			9				
csc50.02-1		Traffic Signal Modifications (4 directions)	1	EA	\$376,047	\$6	\$2,256,282	\$6	\$2,256,282
csc50.02-2		Traffic Signal Modifications (3 directions)	1	EA	\$289,523	\$10	\$2,895,230	\$2	\$579,046
	50.02	Traffic Signals and Crossing Protection		RF			\$5,151,512		\$2,835,328
		Traction Power Supply: Substations							
cs <mark>c50.03</mark> -1		Traction Power Substations (2 MW)	1	EA	\$1,640,461	5	8,202,305	2	3,280,922
	50.03	Traction Power Supply: Substations		RF			\$8,202,305		\$3,280,922
		Traction Power Distribution: Catenary and Thi	rd Rail					••	
csc50.04-1 csc50.04-2		Traction Power Supply - At-Grade OCS, Dual Track Traction Power Supply - Subway OCS, Double Track	1	RF RF	\$315 \$216	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
csc50.04-2 csc50.04-3		Traction Power Supply - Subway CCS, Double Track Traction Power Supply - Aerial OCS, Dual Track	1	RF	\$225	\$24,972	\$5,618,700	\$8,793	\$1,978,425
csc50.04-4		Traction Power Supply - Aerial OCS, Single Track	1	RF	\$170	\$0	\$0	\$0	\$0
	50.04	Traction Power Distribution: Catenary and Third Rail		RF			\$5,618,700		\$1,978,425
		Communication			0,0001				
csc50.05-1		Communications System - Dual Track	1	LS	\$299	\$24,972	\$7,466,628	\$8,793	\$2,629,107
	50.05	Communication		-			\$7,466,628		\$2,629,107
					V)		4.7		
		Fare Collection System and Equipment							
csc50.06-1		Fare Vending Equipment Underground Stations	1	LS	\$584,612	-	\$0	-	\$0
csc50.06-2		Fare Vending Equipment Aerial & At Grade Stations	1	LS	\$299,712	2	\$599,424	3	\$899,136
	50.06	Fare Collection System and Equipment		RF			\$599,424		\$899,136
		Central Control							
csc50.07		Central Control Facility	1	LS	\$8,529,933	-	\$0		\$0
	50.07	Central Control		RF			\$0		\$0
					1				

Honolulu High-Capacity Transit Corridor Project **Fixed Guideway Alternatives** Summary Cost Comparison of Alternative Analysis Pricing Sheet Systems

		COST			Hwy/Ha St/Kapiol Ala M	am/Nimitz dekauwila lani Blyd to oana Sta	System	
	DESCRIPTION	ID	QTY	UNIT	Section	n 1 Alt 5	Sectio	
50.00 Systems				ALIGNMENT	14,524	37	0	38
	Train Control & Signals							33.
esc50.01-1 esc50.01-2	ATC, Signal System Line Stations Highway Crossing Warning Devices (Preemptive)	1	RF EA	\$238 \$235,278	\$14,524 \$0	\$3,456,712 \$0	0	\$0 \$0
50.01	Train Control & Signals		RF			\$3,456,712		\$0
	Guideway: At-grade semi-exclusive (allows cross-traffic) NOT	USED*******	*		**NC	OT USED**	**NOT	USED**
	Traffic Signals and Crossing Protection			2				
sc50.02-1	Traffic Signal Modifications (4 directions)	1	EA	\$376,047	\$13	\$4,888,611	0	\$0
sc50.02-2	Traffic Signal Modifications (3 directions)	1	EA	\$289,523	\$5	\$1,447,615	0	\$0
50.02	Traffic Signals and Crossing Protection		RF			\$6,336,226		\$0
	Traction Power Supply: Substations					7		
s <mark>c50.03</mark> -1	Traction Power Substations (2 MW)	1	EA	\$1,640,461	3	4,921,383	-	0
50.03	Traction Power Supply: Substations		RF			\$4,921,383		\$0
esc50.04-1 esc50.04-2 esc50.04-3 esc50.04-4	Traction Power Distribution: Catenary and Thin Traction Power Supply - At-Grade OCS, Dual Track Traction Power Supply - Subway OCS, Double Track Traction Power Supply - Aerial OCS, Dual Track Traction Power Supply - Aerial OCS, Single Track	rd Rail 1 1 1 1	RF RF RF RF	\$315 \$216 \$225 \$170	\$0 \$0 \$14,524 \$0	\$0 \$0 \$3,267,900 \$0		\$0 \$0 \$0
50.04	Traction Power Distribution: Catenary and Third Rail		RF			\$3,267,900		\$0
	Communication							
sc50.05-1	Communications Communications System - Dual Track	1	LS	\$299	\$14,524	\$4,342,676	-	\$0
50.05	Communication		•			\$4,342,676		\$0
	Fare Collection System and Equipment							
esc50.06-1 esc50.06-2	Fare Vending Equipment Underground Stations Fare Vending Equipment Aerial & At Grade Stations	1	LS LS	\$584,612 \$299,712	- 6	\$0 \$1,798,272	:	\$0 \$0
50.06	Fare Collection System and Equipment		RF			\$1,798,272		\$0
	Central Control			720				
csc50.07	Central Control Facility	1	LS	\$8,529,933	-	\$0	1	\$8,529,933
50.07	Central Control		RF		16	\$0		\$8,529,933
Total Systems						\$24,123,169		\$8,529,933

Honolulu High-Capacity Transit Corridor Project **Fixed Guideway Alternatives** Summary Cost Comparison of Alternative Analysis Pricing Sheet Vehicles

Summary Cost Comparison of Alternative Analysis

Vehicles Cost Summary

COST ID	DESCRIPTION	20-mile Alignment QTY	UNIT	UNIT COST	20-mile Alignment COST
70.00 Vehicles					
CSC70.01	Articulated LRV	66	EA	\$2,466,732	\$162,804,312
70.01	TOTAL		EA		\$162,804,312
CSC70.06	Non Revenue Vehicles	1	LS	\$4,203,149	\$4,203,149
70.06	TOTAL		LS		\$4,203,149
CSC70.07	Spare Parts	66	EA	\$246,673	\$16,280,418
70.07	TOTAL		EA		\$16,280,418
Total Vehicles					\$183,287,879